

Profitable Uses of Agricultural Byproducts

U T A H S T A T E U N I V E R S I T Y

CENTER

The Center for Profitable Uses of Agricultural Byproducts (CPUAB) located at Utah State University was established in 2000 to strengthen the rural economy by working closely with agricultural related businesses to transfer technologies that they need and want. In particular the Center works to transform agricultural waste products into useful items such as energy. This was the Center's final year in the program.

TECHNOLOGY

The main technology developed thus far at the Center is the induced blanket reactor (IBR) anaerobic digester. Electricity can be made from manure using the IBR. The manure produced by a typical 1000 cow dairy or 6000 pigs can produce enough electricity for 100 homes. Even more importantly, the major advantage of using the reactor is ease of manure handling and pollution control, including odor remission. Large farms are under increasing restrictions to use advanced waste treatment which includes managing nutrients, controlling odor and further minimizing the pollution potential of water and soil.

ACCOMPLISHMENTS

Andigen is a company that was started to market the technology developed at CPUAB, which includes two issued patents. Andigen has deployed four large IBR systems in Utah and Idaho with two more presently being built in Montana and California. Additional systems are planned for Southeastern Idaho, Ontario, Canada, and Southern California with a number of other locations in the negotiating stage. The company has a strong potential of being the largest supplier of farm scale anaerobic digesters in the US in the near future.

THINK TANK

What if there was...



**A system that could
improve the odor
control and waste
management of
large farming
operations that
could pay for itself
and even generate
a profit?**

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